

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims:

1. (Currently Amended) A condensing apparatus of a dish washer for condensing vapor inside a dish washer tub, the condensing apparatus having a top and a bottom, the condensing apparatus comprising:

a blower, at the top of the condensing apparatus, for suctioning the vapor from inside the tub;

~~an air duct connected to the blower and forming a vapor passage for circulating the vapor and generating condensed water; wherein the vapor passage includes a ridge formed thereon for stopping the condensed water, the vapor passage including a horizontal part and a vertical part;~~

an air duct forming a vapor passage, comprised of a plurality of vertically stacked horizontal duct segments spaced apart from each other in a vertical direction, a first end of a topmost horizontal duct segment being fluidly coupled to the blower, and each of the remaining plurality of horizontal segments being fluidly connected to the horizontal duct segment directly above it by a curved duct segment such that the air duct folds horizontally back and forth upon itself to form a vertical stack of horizontal duct segments;

~~a condensed water discharge port formed at the air duct for discharging condensed water condensed from the vapor; and at a first side of the bottommost one of the plurality of horizontal duct segments; and~~

~~a vapor exhaust port spaced apart from the condensed water discharge port for exhausting vapor from which water has been removed into to the outside of the dish washer; and at an open second end of the bottommost one of the plurality of horizontal duct segments;~~

wherein the air duct includes at least one ridge included in the vapor passage is configured to protrude upward from an inner bottom surface of at least one of the plurality of horizontal part-duct segments, perpendicular to a direction of vapor being blown by the blower, and configured to collect at least some of the condensed water-vapor on the floor of the horizontal portion.

2. (Canceled)

3. (Currently Amended) The condensing apparatus according to claim 1, wherein the ridge is formed at a point where the vapor passage transitions from the horizontal ~~part segment~~ to the ~~vertical part curved duct segment~~.

4-5. (Canceled)

6. (Currently Amended) The condensing apparatus according to claim 1, wherein the ~~air duct further includes a portion between the condensed water discharge port and the vapor exhaust port, the portion being bottommost one of the plurality of horizontal duct segments is~~ inclined at a predetermined angle to dispose the condensed water discharge port lower than the vapor exhaust port, wherein the predetermined angle is larger than zero and smaller than 90 degrees to a horizontal line.

7. (Original) The condensing apparatus according to claim 1, wherein the blower includes a condenser fan for blowing air at the air duct to exchange heat with the vapor circulating inside the air duct, and a dryer fan for providing suctioning force to suction vapor from inside the tub.

8. (Original) The condensing apparatus according to claim 7, wherein the blower further includes a motor for driving the condenser fan and the dryer fan together.

9. (Currently Amended) A condensing apparatus of a dish washer having an air duct for suctioning and condensing vapor from inside a dish washer tub, the condensing apparatus comprising:

~~a plurality of horizontal [[part]] parts forming at least one portion of the a plurality of horizontal air duct segments;~~

~~a vertical part in fluid communication with the horizontal part and configured to be bent from the horizontal part;~~

~~vertical parts, extending from an upward bend at a first end of each of the plurality of horizontal air duct segment and a downward bend from a second end, opposite to the first~~

end, wherein each upwardly bent vertical part is in fluid communication with a corresponding downwardly bent vertical part of the horizontal air duct segment immediately above it, such that the air duct folds horizontally back and forth upon itself to form a vertical stack of horizontal duct segments;

a vapor passage formed in the horizontal and vertical parts for circulating the vapor suctioned from inside the tub and generating condensed water;

a ridge within the vapor passage configured to protrude a predetermined height upward from a bottom surface of the horizontal part ~~for stopping and to extend across the bottom surface of the horizontal part in a direction in which the condensed water passing through the vapor passage is stopped by the ridge;~~

a condensed water discharge port formed at the air duct for discharging water condensed from the vapor into the tub; and

a vapor exhaust port spaced apart from the condensed water discharge port for exhausting vapor from which water has been removed to a space [[the]] outside of the-dish washer.

10. (Canceled)

11. (Previously Presented) The condensing apparatus according to claim 9, wherein the ridge is formed at a point where the vapor passage transitions from the horizontal part to the vertical part.

12-13. (Canceled)

14. (Currently Amended) The condensing apparatus according to claim 9, wherein ~~the-a lowermost air duct further includes a portion between-segment having the condensed water discharge port and the vapor exhaust port, the portion being is~~ inclined at a predetermined angle to dispose the condensed water discharge port lower than the vapor exhaust port, wherein the predetermined angle is larger than zero and smaller than 90 degrees to a horizontal line.

15. (Original) The condensing apparatus according to claim 9, further comprising a condenser fan for blowing air at the air duct to exchange heat with the vapor circulating inside the air duct, and a dryer fan for providing suctioning force to suction vapor from inside the tub.

16-20. (Canceled)